

GENERAL NOTES (APPLIES TO ALL SHEETS)

- It shall be the General Contractor's responsibility to establish cut and fill quantities necessary to provide the final grades indicated on these plans. Fill material not available at the site shall be provided by the General Contractor at no additional cost to the owner. Furthermore, the General Contractor, by way of establishing a contract price for site grading, has acknowledged that he is aware of the limited subsurface information and available fill material necessary to complete the work, and that his established contract price is sufficient to ensure the proper completion of the project and conditions which may affect the work, including but not restricted to those bearing upon transportation, disposal, handling and storage of materials; water tables or similar conditions at the site; availability of labor, water, electric power, roads, and uncertainties of weather, and the character of equipment and facilities needed preliminary to and during proceedings of the work. Any failure by the Contractor to acquit himself with these facts will not relieve him from responsibility for estimating properly the difficulty or cost of successfully performing the work. The Owner assumes no responsibility for any conclusions or interpretations made by the Contractor on the basis of the information, if any, made available by the Owner.
- The Contractor shall be responsible for any damage to gas or water pipes, public or private sewers, drains or culverts, railroad or traffic signal cables, telephone or power conduits, or other structures. When utility lines that are to be removed are encountered within the area of operations, the Contractor shall notify the Owner's representative in ample time for the necessary measures to be taken to prevent interruption of the services. Reasonable care has been exercised in showing the location of existing utilities on the plans. The exact location of such utilities is not known in all cases. The Contractor shall explore the area ahead of the grading operation by observations, electronic devices, and by personal contacts with utility companies, and locate such utilities in advance of the trenching or grading operations, and shall conduct his work so as to eliminate or minimize damage to the existing structures or utilities.

- Vertical and horizontal reference points provided on these plans are intended to establish base lines for locating the principal components of the work. From this information the Contractors shall develop and make all detailed surveys needed for construction of all types. Costs associated with the provision of construction lay-out shall be included in the contract price for the related work. In no case shall information provided on the plans relieve the Contractor from his responsibility of providing building locations and dimensions as indicated on the architectural plans. The Contractor shall carefully preserve bench marks, reference points and stakes and, in case of willful or careless destruction, shall be charged with the resulting expense and shall be responsible for any mistake that may be caused by their unnecessary loss or disturbance.
- The General Contractor shall be responsible for the provision and routine maintenance of erosion control devices, either indicated or required by Division of Land Resources Personnel, necessary to comply with the Sedimentation Pollution Control Act of 1973 and amendments thereto. Any fines resulting from the improper provision or maintenance of required devices shall be borne by the General Contractor.
- The General Contractor shall be responsible for conformance with all current local, state, and OSHA safety codes during all phases of the work. Contract prices established for the work shall include costs associated with the provision of safety equipment, and personnel necessary to complete the work, including but not limited to, trench bracing, and personnel licensed by OSHA as competent for evaluating soil stability.

SITE PLAN

FOR

PARKING LOT EXPANSION AND GRADING ACTIVITY FIELD (ALTERNATE BID)

AT

CREEKSIDE PARK

CITY OF ARCHDALE

RANDOLPH COUNTY - NORTH CAROLINA

JOB No. 2019064
JULY, 2020

OWNER

CITY OF ARCHDALE
307 BALFOUR DRIVE
ARCHDALE, N.C. 27263

SHEET INDEX

- 1 SITE PLAN
- 2 FINAL GRADING PLAN
- 3 GRADING & EROSION CONTROL PLAN
- 4 EROSION CONTROL DETAIL SHEET
- 5 NCG01 CONSTRUCTION GENERAL PERMIT REQUIREMENTS

SITE DATA

EXISTING ZONING: O1
PROP. LAND USE: CITY PARK

TOTAL SITE AREA: 100.58 AC.
PROPOSED BUILT-UPON AREA: 35,838 S.F. (0.82 AC.)
= 0.80%

SEWER: NONE REQUIRED
WATER: NONE REQUIRED

SOIL TYPE: HSB
AVERAGE SLOPE: 3% ±
DISTANCE TO FLOODWAY: 750 LF ±
DISTURBED AREA: 3.45 AC. ±
PARCEL ID: 7728305931 (PORTION)
DEED REF: DB 1699 PG 185
EST. START DATE: SEPT. 2020
EST. END DATE: DEC. 2020
RIVER BASIN: DEEP RIVER/RANDLEMAN
LAT/LONG: 35.893, -79.933

PARKING SUMMARY

TOTAL SPACES = 135
HANDICAP SPACES REQUIRED = 5
HANDICAP SPACES PROVIDED = 6

HANDICAP ACCESSIBILITY NOTES

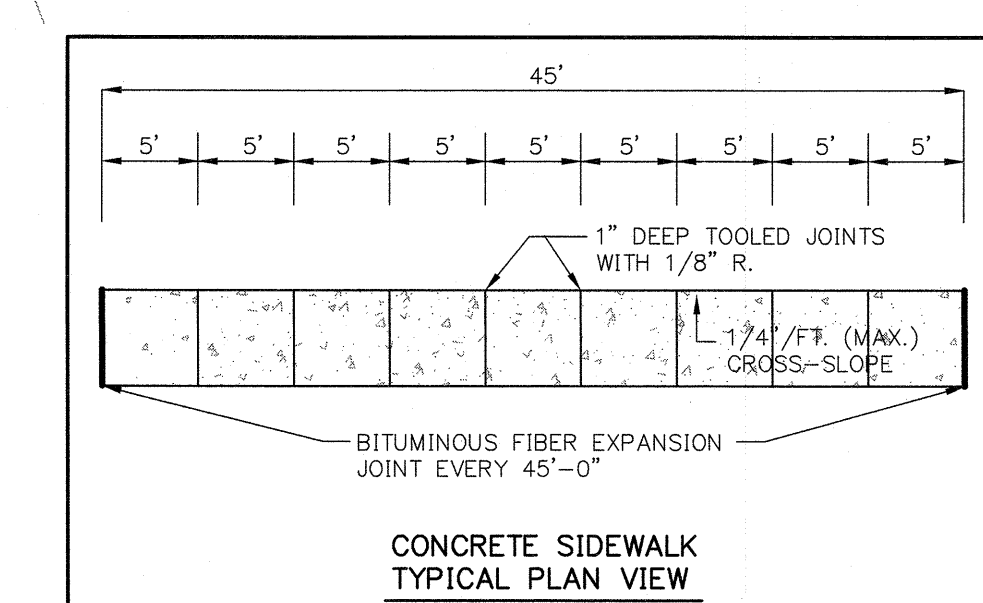
1. ALL SIDEWALKS TO HANDICAP PARKING SPACES AND ENTRANCES SHALL BE MAINTAINED AT SLOPES LESS THAN 5% (1:20). AREAS OF HANDICAP SPACES AND ISLES SHALL NOT EXCEED SLOPES GREATER THAN 2% IN ANY DIRECTION INCLUDING THE DIAGONAL.
2. HANDICAP SIGNS WILL BE PROVIDED IN CONFORMANCE WITH CURRENT CITY/ADA STANDARDS.
3. THERE SHALL BE LEVEL TURNING AREAS (MAX. 2% SLOPE IN ANY DIRECTION INCLUDING THE DIAGONAL) ON ALL SIDEWALKS WHERE AN INTERSECTING SIDEWALK CONNECTS WITH IT.

MATERIAL AND INSTALLATION SPECIFICATIONS

1. ALL ROADWAY AND STORM DRAINAGE MATERIALS AND METHODS OF INSTALLATION SHALL CONFORM WITH N.C. DEPT. OF TRANSPORTATION STANDARDS INCLUDING, BUT NOT LIMITED TO, ASPHALT PAVEMENT, STONE BASE, CURB & GUTTER, STORM PIPE AND STORM INLET STRUCTURES.
 2. ALL ROADWAY AND SIDEWALK SUBGRADES SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY OR AS APPROVED BY THE SITE GEO-TECH ENGINEER. NO ASPHALT OR STONE BASE MATERIAL WILL BE INSTALLED UNTIL WHICH TIME THE SITE'S GEO-TECH ENGINEER HAS APPROVED THE SUBGRADE AND STONE BASE. AREAS REQUIRING PLACEMENT OF FILL SHALL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF THE SITE'S GEO-TECH ENGINEER.
- ASPHALT PAVING WILL BE PROVIDED AS FOLLOWS: -6" CABC
-2" S9.5B
-1" SF 9.5A
3. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR GREATER UNLESS INDICATED OTHERWISE.
 4. ALL PAVEMENT STRIPING WILL BE APPROVED BY OWNER PRIOR TO APPLICATION.

NOTES:

1. ALL SUB-GRADINGS SHALL BE APPROVED BY GEO-TECHNICAL PERSONNEL, AND PROOF ROLLED PRIOR TO PLACEMENT OF STONE BASE MATERIAL. SURFACE COARSE SHALL OVERLAP EXISTING PAVEMENT AT TIES TO PROVIDE FOR SMOOTH TRANSITION. (SEE PAVING REQUIREMENTS)
2. FINISHED ASPHALT PAVEMENT SHOULD BE COMPLETED SO THAT NO PONDING OCCURS. IF PONDING DOES OCCUR, THE OWNER HAS THE RIGHT TO REQUIRE REMOVAL AND REPLACEMENT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPLICABLE UTILITY LOCATION COMPANIES TO PROVIDE UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKE-OUT BASED UPON HORIZONTAL AND VERTICAL CONTROL PROVIDED BY THE ENGINEER.
5. THE CONTRACTOR SHALL REVIEW WITH CITY PERSONNEL ALL AREAS REQUIRING CLEARING AND GRUBBING PRIOR TO ANY TREE REMOVAL.
6. BOUNDARY INFORMATION SHOWN TAKEN FROM DEEDS AND LIMITED FIELD WORK. THIS IS NOT A SURVEY.



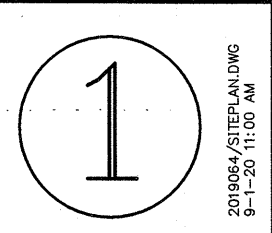
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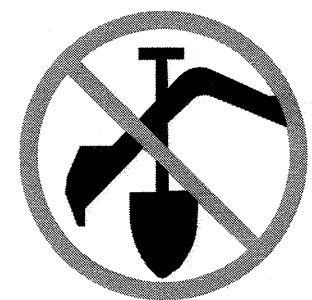
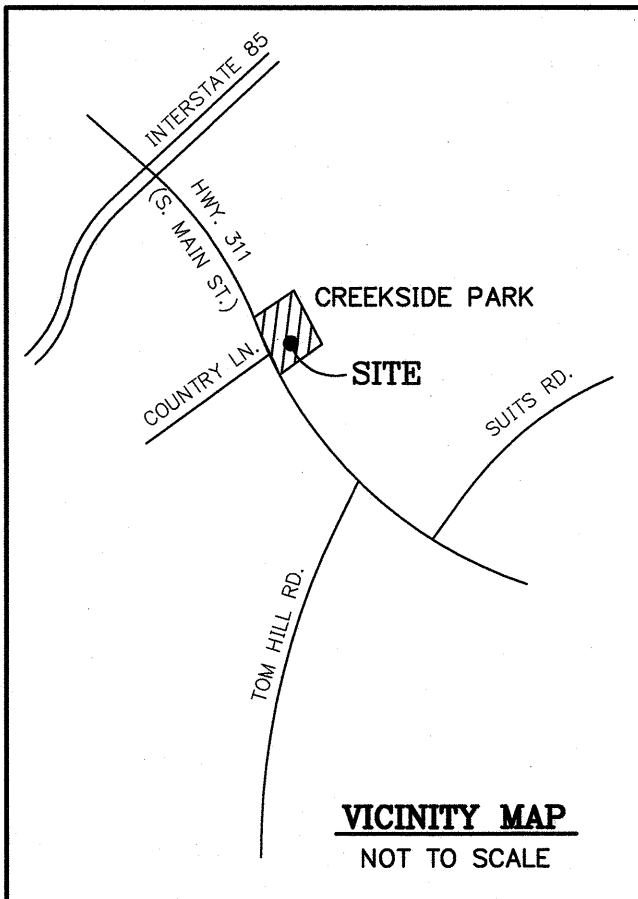
1. CONSTRUCT STANDARD SIDEWALK 5' WIDE AND 4" THICK UNLESS OTHERWISE NOTED ON PLANS. IF ADJACENT TO CURB, SIDEWALK MUST BE 6' WIDE.
2. ALL CONCRETE SHALL BE PCC, CLASS B, 2500 PSI AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 825 AND SECTION 848 OF THE CURRENT EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. SEE CITY STD. No. 511 FOR WHEELCHAIR RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.
3. PRIOR TO POURING OF THE CONCRETE, THE FOUNDATION, FORMWORK, ETC. MUST BE APPROVED BY THE CITY.
4. THE JOINT SEALER SHALL BE 3/4" DEPTH AND SHALL MEET CURRENT NCDOT STANDARD SPECIFICATIONS, ARTICLE 1028-4.

30' 20' 10' 0' 30' 60'

SCALE: 1" = 30'

JAMESTOWN ENGINEERING GROUP, INC.
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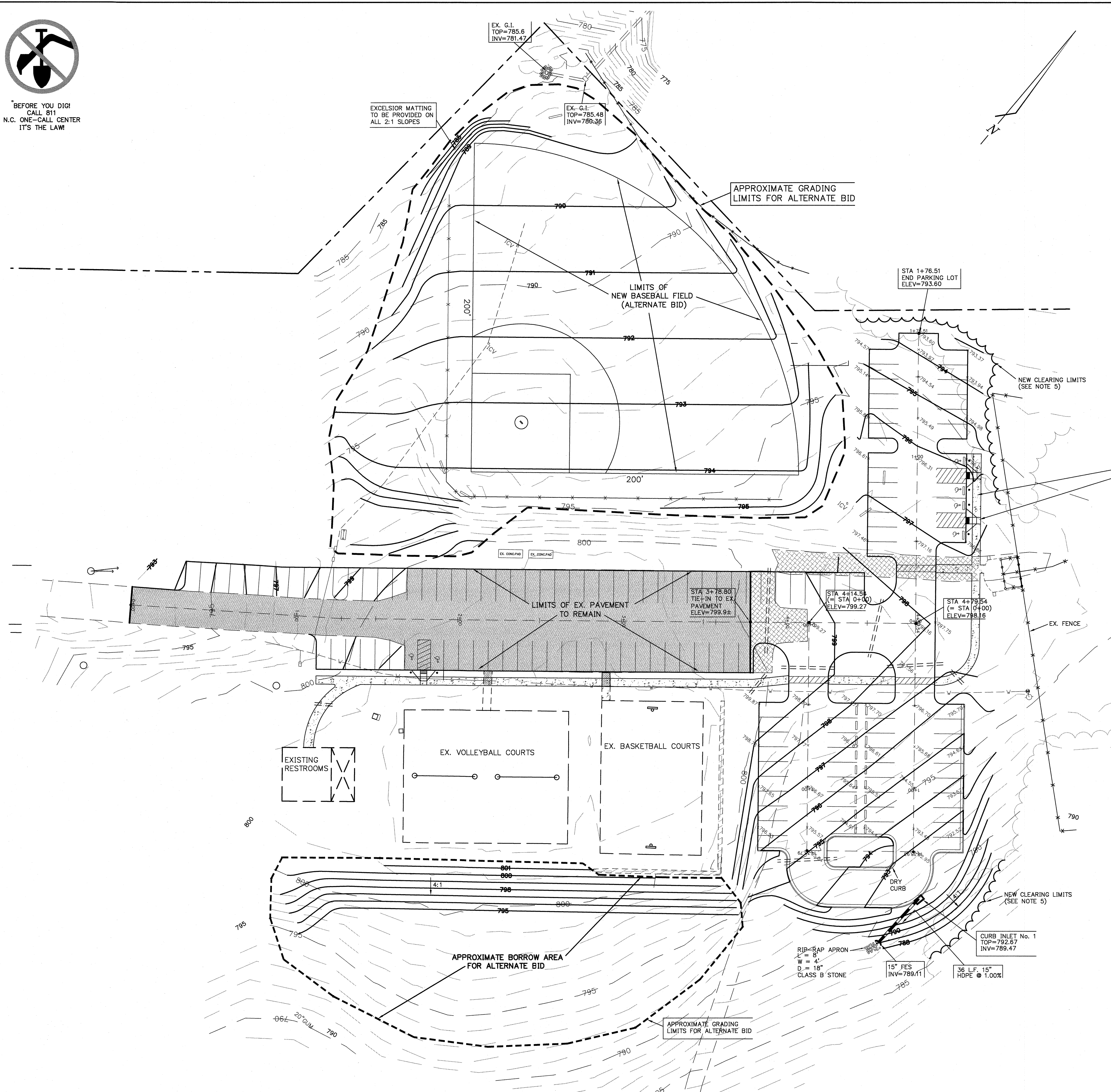
VICINITY MAP
NOT TO SCALE

FINAL GRADING PLAN FOR PARKING LOT EXPANSION AND GRADING ACTIVITY FIELD (ALTERNATE BID) AT CREEKSIDE PARK CITY OF ARCHDALE

RANDOLPH COUNTY - NORTH CAROLINA
JOB No. 2019064
JULY, 2020

OWNER

CITY OF ARCHDALE
307 BALFOUR DRIVE
ARCHDALE, N.C. 27263



HANDICAP ACCESSIBILITY NOTES

1. ALL SIDEWALKS TO HANDICAP PARKING SPACES AND ENTRANCES SHALL BE MAINTAINED AT SLOPES LESS THAN 5% (1:20). AREAS OF HANDICAP SPACES AND ISLES SHALL NOT EXCEED SLOPES GREATER THAN 2% IN ANY DIRECTION INCLUDING THE DIAGONAL.
2. HANDICAP SIGNS WILL BE PROVIDED IN CONFORMANCE WITH CURRENT CITY/ADA STANDARDS.
3. THERE SHALL BE LEVEL TURNING AREAS (MAX. 2% SLOPE IN ANY DIRECTION INCLUDING THE DIAGONAL) ON ALL SIDEWALKS WHERE AN INTERSECTING SIDEWALK CONNECTS WITH IT.

MATERIAL AND INSTALLATION SPECIFICATIONS

1. ALL ROADWAY AND STORM DRAINAGE MATERIALS AND METHODS OF INSTALLATION SHALL CONFORM WITH N.C. DEPT. OF TRANSPORTATION STANDARDS INCLUDING, BUT NOT LIMITED TO, ASPHAL PAVEMENT, STONE BASE, AND STORM INLET STRUCTURES.
2. ALL ROADWAY AND SIDEWALK SUBGRADES SHALL BE COMPACTED TO A MINIMUM 95% STANDARD PROCTOR DENSITY OR AS APPROVED BY THE SITE GEO-TECH ENGINEER. NO ASPHALT OR STONE BASE MATERIAL WILL BE INSTALLED UNTIL WHICH TIME THE SITE'S GEO-TECH ENGINEER HAS APPROVED THE SUBGRADE AND STONE BASE. AREAS REQUIRING PLACEMENT OF FILL WILL BE PLACED IN ACCORDANCE WITH REQUIREMENTS OF THE SITE'S GEO-TECH ENGINEER.

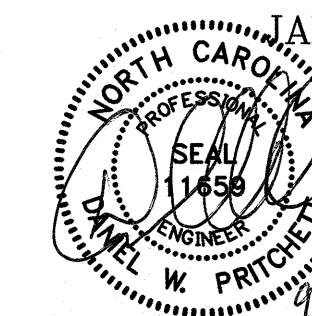
ASPHALT PAVING WILL BE PROVIDED AS FOLLOWS: -6" CABC
-2" S9.5B
-1" SF 9.5A

3. ALL CUT AND FILL SLOPES SHALL BE 3:1 OR GREATER UNLESS INDICATED OTHERWISE.
4. ALL PAVEMENT STRIPING WILL BE APPROVED BY OWNER PRIOR TO APPLICATION.

NOTES

1. ALL SUB-GRADES SHALL BE APPROVED BY GEO-TECHNICAL PERSONNEL AND PROOF ROLLED PRIOR TO PLACEMENT OF STONE BASE MATERIAL. SURFACE COARSE SHALL OVERLAP EXISTING PAVEMENT AT TIES TO PROVIDE FOR SMOOTH TRANSITION. (SEE PAVING REQUIREMENTS)
2. FINISHED ASPHALT PAVEMENT SHOULD BE COMPLETED SO THAT NO FONDING OCCURS. IF FONDING DOES OCCUR, THE OWNER HAS THE RIGHT TO REQUIRE REMOVAL AND REPLACEMENT.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING APPLICABLE UTILITY LOCATION COMPANIES TO PROVIDE UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKE-OUT BASED UPON HORIZONTAL AND VERTICAL CONTROL PROVIDED BY THE ENGINEER.
5. THE CONTRACTOR SHALL REVIEW WITH CITY PERSONNEL ALL AREAS REQUIRING CLEARING AND GRUBBING PRIOR TO ANY TREE REMOVAL.
6. BOUNDARY INFORMATION SHOWN TAKEN FROM DEEDS AND LIMITED FIELD WORK. THIS IS NOT A SURVEY.

30' 20' 10' 0' 30' 60'
SCALE: 1" = 30'



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2

EROSION CONTROL PLAN

FOR
PARKING LOT EXPANSION
AND GRADING ACTIVITY FIELD
(ALTERNATE BID)

AT
CREEKSIDE PARK
CITY OF ARCHDALE

RANDOLPH COUNTY — NORTH CAROLINA
JOB No. 2019064
JULY, 2020

OWNER
CITY OF ARCHDALE
307 BALFOUR DRIVE
ARCHDALE, N.C. 27263

SITE DATA
EXISTING ZONING: OI
PROP. LAND USE: CITY PARK
TOTAL SITE AREA: 100.58 AC.
PROPOSED BUILT-UPON AREA: 35,838 S.F. (0.82 AC.)
SEWER: NONE REQUIRED
WATER: NONE REQUIRED
SOIL TYPE: HcB
AVERAGE SLOPE: 3% ±
DISTANCE TO FLOODWAY: 750 LF±
DISTURBED AREA: 3.45 AC.±
PARCEL ID: 7728305931 (PORTION)
DEED REF: DB 1699 PG 185
EST. START DATE: SEPT. 2020
EST. END DATE: DEC. 2020
RIVER BASIN: CAPE FEAR
LAT/LONG: 35.893, -79.933

SEDIMENT BASIN DESIGN TABLE

	SEDIMENT BASIN #1	SEDIMENT BASIN #2	SEDIMENT BASIN #4
C (UNDISTURBED AREA)	0.40	0.40	0.40
C (DISTURBED AREA)	0.50	0.50	0.50
I-10	5.8 in/hr	5.8 in/hr	5.8 in/hr
TOTAL DRAINAGE AREA	0.7 ac	0.35 ac	0.75 ac
DISTURBED AREA	0.7 ac	0.35 ac	0.5 ac
Q ₁₀	2.0 cfs	1.0 cfs	2.2 cfs
REQUIRED VOLUME	2520 cf	1260 cf	1900 cf
REQUIRED SURFACE AREA	884 sf	442 sf	958 sf
DEPTH	3.0 ft	2.5 ft	3.0 ft
TOP POND DIMENSIONS (W x L)	50 ft x 25 ft	40 ft x 20 ft	44 ft x 22 ft
BOTTOM POND DIMENSIONS (W x L)	38 ft x 13 ft	30 ft x 10 ft	32 ft x 10 ft
VOLUME PROVIDED	2816 cf	1375 cf	1932 cf
SURFACE AREA PROVIDED	1250 sf	800 sf	968 sf
AVERAGE AREA	872 sf	550 sf	644 sf
WEIR LENGTH REQUIRED (Q ₁₀)	4'	4'	4'

SKIMMER BASIN DESIGN TABLE

	SKIMMER BASIN #3
C (UNDISTURBED AREA)	0.40
C (DISTURBED AREA)	0.50
I-10	5.8 in/hr
TOTAL DRAINAGE AREA	2.1 ac
DISTURBED AREA	1.8 ac
Q ₁₀	6.1 cfs
REQUIRED VOLUME	3240 cf
REQUIRED SURFACE AREA	1983 sf
DEPTH	2.5 ft
TOP POND DIMENSIONS (W x L)	64 ft x 32 ft
BOTTOM POND DIMENSIONS (W x L)	52 ft x 20 ft
VOLUME PROVIDED	3860 cf
SURFACE AREA PROVIDED	2048 sf
AVERAGE AREA	1544 sf
WEIR LENGTH REQUIRED (Q ₁₀)	4'
SKIMMER SIZE (ORIFICE)	1.5" (1.3")

RANDOLPH COMMUNITY COLLEGE
D.B. 1217 PG. 937

CITY OF ARCHDALE
D.B. 1878 PG. 990

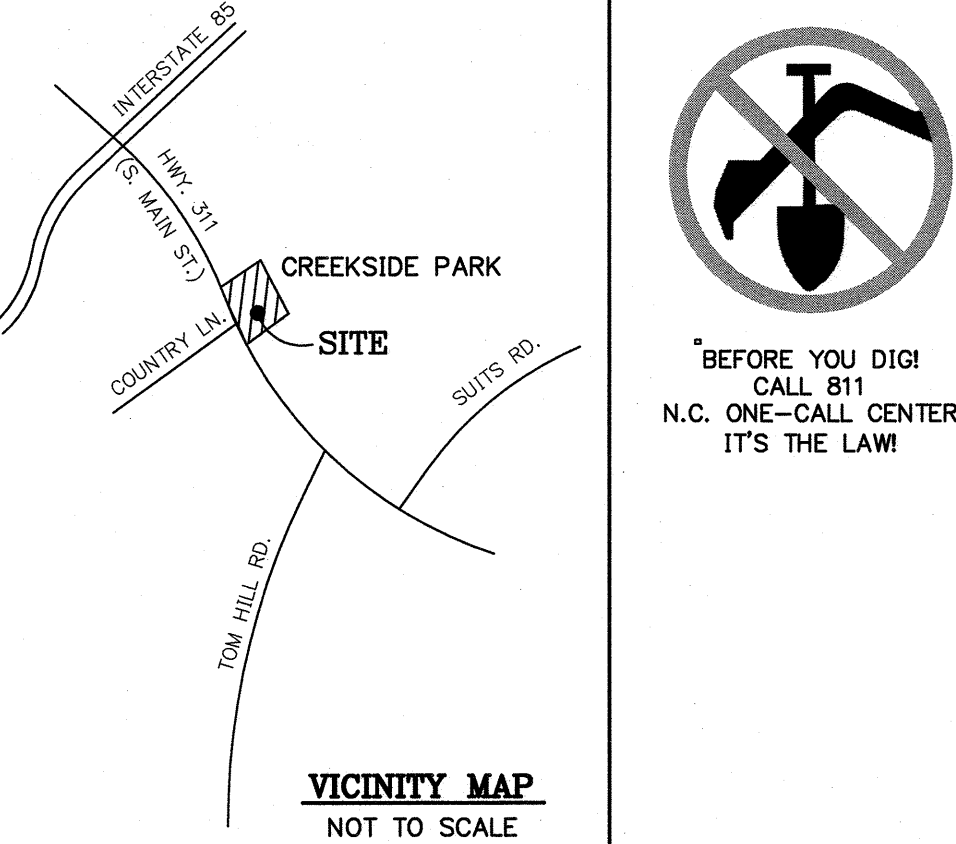
LEGEND

	SILT FENCE
	SWALE NUMBER
	EXISTING CONTOURS
	LIMITS OF DISTURBED AREA
	INLET PROTECTION DEVICE
	SILT FENCE STONE OUTLET
	TEMPORARY CONST. ENTRANCE
	TEMPORARY SEDIMENT TRAP W/ COIR BAFFLES
	TEMPORARY DIVERSION BERM & SWALE

SCALE: 1" = 30'

- CONSTRUCTION SEQUENCE**
- OBTAIN PLAN APPROVAL FROM NCDEQ AND ALL APPLICABLE PERMITS FROM OTHER REVIEWING AGENCIES.
 - FLAGGING OF ALL THE CONSTRUCTION/DISTURBED LIMITS SHALL BE PERFORMED PRIOR TO THE PRECONSTRUCTION MEETING. THE CONTRACTOR IS TO STAY WITHIN THE LIMITS OF CONSTRUCTION. ANY NEED TO CROSS THIS LIMIT LINE WILL NEED TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ANY CROSS OVER. THE CLEARING LIMITS MUST BE FLAGGED PRIOR TO THE PRECONSTRUCTION MEETING IN ORDER TO PREVENT ACCIDENTAL ENTRY OUTSIDE THE CLEARING LIMITS.
 - SET UP PRE-CONSTRUCTION MEETING ON SITE PRIOR TO ANY CONSTRUCTION, WITH THE OWNER, WITH ALL CONTRACTORS INVOLVED WITH LAND DISTURBANCE AND THE EROSION CONTROL INSPECTOR.
 - INSTALL STONE CONSTRUCTION ENTRANCE.
 - CLEAR AND GRUB THOSE AREAS NEEDED TO INSTALL EROSION CONTROL MEASURES IN THE SEQUENCE OUTLINED BELOW. EROSION CONTROL DEVICES ARE TO BE INSTALLED BASED ON DETAILS PROVIDED UNDER THE APPROVED PLANS. THE PLANS AND DETAILS ARE BASED ON THE N.C. EROSION AND SEDIMENT PLANNING AND DESIGN MANUAL, AND RECOGNIZED BEST MANAGEMENT PRACTICES (BMPs). ENSURE POSITIVE DRAINAGE TO ALL STRUCTURES ALONG DIVERSION BERMS. TOPSOIL SHALL BE UTILIZED IN THE SLOPES TO THE EXTENT ALLOWED BY THE GEO-TECH ENGINEER OF RECORD.
 - CLEAR ENOUGH TO INSTALL THE SEDIMENT BASIN. INSTALL THE SEDIMENT BASIN. CLEAR AREAS REQUIRED FOR THE INSTALLATION OF DIVERSION BERMS. INSTALL DIVERSION BERMS.
 - INSTALL SILT FENCE BELOW SEDIMENT TRAPS AND SEED ALL DEVERSIONS AND MEASURES.
 - CLEAR AND GRUB REMAINDER OF THE SITE AND BEGIN GRADING.
 - AS THE SITE IS BROUGHT TO GRADE, INSTALL STORM DRAINAGE AND IMMEDIATELY INSTALL INLET PROTECTION MEASURES.
 - STABILIZE THE SITE PER THE TIME TABLES LISTED ON THIS SHEET AS WELL AS SHEET NC001.
 - UPON STABILIZATION OF THE SITE, AND APPROVAL OF THE EROSION CONTROL INSPECTOR, DIVERSION BERMS, SILT FENCE, AND DONUT INLET PROTECTION SHALL BE REMOVED. SEDIMENT TRAPS AND BASINS SHALL BE FILLED. AREAS DISTURBED IN THIS PROCESS SHALL BE STABILIZED.
 - FOLLOWING STABILIZATION OF SITE, REQUEST CLOSURE OF THE GRADING PERMIT FROM THE NCDEQ EROSION CONTROL INSPECTOR.

- EROSION CONTROL NOTES**
- THE CONTRACTOR SHALL MAINTAIN CLOSE CONTACT WITH THE EROSION CONTROL INSPECTOR. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED THAT ARE NOT INDICATED ON THE PLANS BY THE EROSION CONTROL INSPECTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION ON-SITE, REGARDLESS OF THE MEASURES REQUIRED. ANY CHANGE IN THE EROSION CONTROL MEASURES AND/OR GRADING SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER AND THE EROSION CONTROL INSPECTOR. ALL MEASURES MUST REMAIN OPERABLE UNTIL THE SITE IS STABILIZED.
 - EROSION CONTROL DEVICES SHALL BE DILIGENTLY MAINTAINED THROUGHOUT CONSTRUCTION. DEVICES SHALL BE INSPECTED AND REPAIRED AFTER EACH SIGNIFICANT RAINFALL.
 - SEDIMENT TRAPS/BASINS ARE TO BE CLEANED OUT WHEN THE BASIN IS NO MORE THAN HALF FULL. THEY SHALL BE CLEARED OF ALL SILT AND RESHAPED TO THE ORIGINAL DESIGN PARAMETER.
 - GRASS OR OTHERWISE STABILIZE ALL AREAS AS THEY ARE BROUGHT UP TO GRADE. STABILIZE WITH GROUND COVER. (SEE G.C. PLAN NOTES FOR STABILIZATION REQUIREMENTS.)
 - STABILIZE WITH GROUND COVER ALL SLOPES, CUT OF FILL, WITHIN THE TIMEFRAME LISTED ON THE ADJOINING TABLE.
 - ALL EROSION CONTROL DEVICES ARE TO REMAIN IN THE PLACE UNTIL THE SITE IS PROPERLY STABILIZED WITH GROUND COVER. ALL UPSTREAM AREAS MUST BE STABILIZED PRIOR TO REMOVAL OF EROSION CONTROL DEVICES. ONCE THIS OCCURS, REMOVE SEDIMENT GRADE TO FINAL ELEVATIONS AND STABILIZE.
 - REMOVE EROSION CONTROL DEVICES ONLY UPON RECEIPT OF APPROVAL FROM EROSION CONTROL INSPECTOR.
 - IF FILL MATERIALS ARE TO BE BROUGHT ONTO THIS PROJECT OR WASTE MATERIALS ARE TO BE TAKEN FROM THIS PROJECT, THIS INFORMATION MUST BE DISCLOSED AND SHOWN ON THE EROSION CONTROL AND GRADING PLAN. BORROW AREAS AND DUMP SITES ARE CONSIDERED TO BE PART OF THIS PROJECT AND THE OWNER IS RESPONSIBLE FOR STABILIZATION AND EROSION CONTROL MEASURES AT THESE SITES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE EROSION CONTROL MAINTENANCE DURING CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL ITEMS/RECORDS REQUIRED BY THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.
 - AS OF MARCH 10, 2003, ALL CONSTRUCTION SITES ONE (1) ACRE OR MORE, REQUIRES A NPDES PERMIT. THEREFORE:
 - WRITTEN DOCUMENTATION OF A DEVIATION FROM APPROVED PLAN MUST BE NOTED ON THE APPROVED PLANS.
 - WRITTEN DOCUMENTATION OF AN EMERGENCY SITUATION WHERE SEDIMENT HAS BEEN DISCHARGED OFF SITE MUST BE RECORDED. ALSO, CONTRACTOR'S ACTIONS TO REPAIR AND RETURN AREA TO PRE-STORM CONDITION MUST BE RECORDED.
 - THE PERMITTEE SHALL INSPECT ALL EROSION AND SEDIMENTATION CONTROL FACILITIES EVERY SEVEN DAYS AND WITHIN 24 HOURS OF A 1 INCH RAINFALL. FINDINGS SHALL BE RECORDED AND PRESENTED UPON INSPECTOR'S REQUEST.
 - THE CONTRACTOR SHALL PROVIDE RAIN-RECORDING DEVICE AND RECORD EACH RAINFALL.
 - ANY FAILURES THAT CAUSE VISIBLE SEDIMENTATION TO LEAVE THE APPROVED DISTURBED LIMITS SHALL BE CORRECTED IMMEDIATELY AND DOCUMENTED.
 - A COPY OF THE NPDES PERMIT SHOULD BE KEPT ON SITE FOR REFERENCE.
 - THE CONTRACTOR SHALL HAVE ON SITE THE MEANS TO REMOVE ANY SEDIMENT TRACKED ONTO THE STREET. IF CONDITIONS REQUIRE, EQUIPMENT MUST BE ON SITE TO WASH TIRES OF VEHICLES PRIOR TO ENTERING STREET.



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VICINITY MAP
NOT TO SCALE

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT
Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQP) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none">Temporary grass seed covered with straw or other mulches and tackifiersHydroseedingRoller erosion control products with or without temporary grass seedAppropriately applied straw or other mulchPlastic sheeting	<ul style="list-style-type: none">Permanent grass seed covered with straw or other mulches and tackifiersGeotextile fabrics such as permanent soil reinforcement mattingHydroseedingShrubs or other permanent plantings covered with mulchUniform and evenly distributed ground cover sufficient to restrain erosionStructural methods such as concrete, asphalt or retaining wallsRoller erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

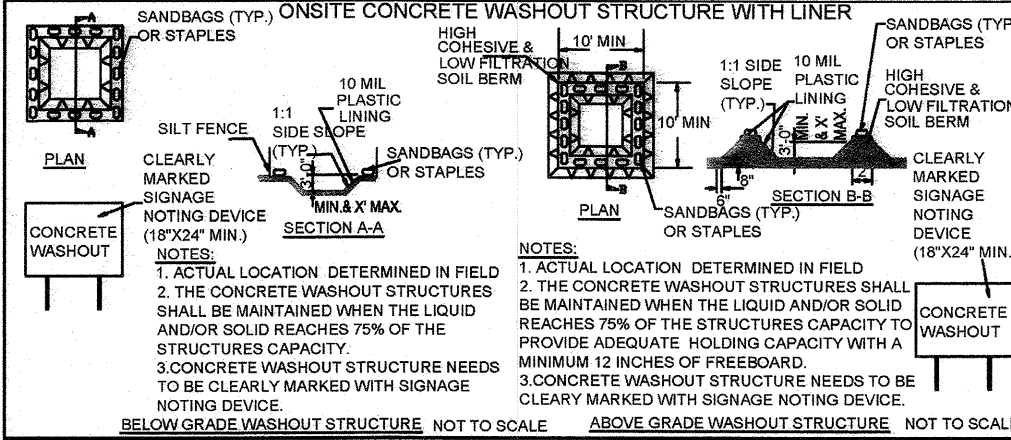
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands on-site or off-site (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, item (2)(a) of this permit of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation
The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This general permit as well as the certificate of coverage, after it is received.
- Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.
- All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION C: REPORTING

1. Occurrences that must be reported

- Permittees shall report the following occurrences:
- Visible sediment deposition in a stream or wetland.
 - Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis.If the stream is named on the <i>NC 303(d) List</i> as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none">A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment [40 CFR 122.41(l)(7)]	<ul style="list-style-type: none">Within 24 hours, an oral or electronic notification.Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. [40 CFR 122.41(l)(6)].Division staff may waive the requirement for a written report on a case-by-case basis.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

JOB NUMBER	NCG01
DATE	APRIL 1, 2019
DESIGNED	NODEQ
DRAWN	NODEQ
CHECKED	NODEQ
SCALE	AS NOTED
BY	
REV.	
DATE	
DESCRIPTION	
NCG01 CONSTRUCTION GENERAL PERMIT REQUIREMENTS	
NC DEPARTMENT OF ENVIRONMENTAL QUALITY NORTH CAROLINA	
SHEET NO.	
NCG01	